Forest Ecology and Management

VOL. 94 NOS. 1–3 **CONTENTS** **30 JUNE 1997**

(Abstracts/contents list published in Biological Abstracts, Biological & Agricultural Index, Current Advances in Ecological Science, Current Awareness in Biological Sciences, Current Contents AB & ES, Ecological Abstracts, Environment Abstracts, Environmental Bibliography, Forestry Abstracts, Geo Abstracts, GEOBASE, Referativnyi Zhurnal)

Structure of northern spotted owl nest stands and their historical conditions on the eastern slope of the Pacific Northwest Cascades, USA
R. Everett, D. Schellhaas, D. Spurbeck, P. Ohlson, D. Keenum and T. Anderson (Wenatchee, WA, USA) 1
Sustainable development of non-timber forest products: implication for forest management in India
A. Mahapatra and C.P. Mitchell (Aberdeen, UK) 15
Litter decomposition in semideciduous forest and *Eucalyptus* spp. crop in Brazil: a comparison
J.N.C. Louzada, J.H. Schoereder and P. De Marco Jr. (Viçosa, Brazil) 31
Influence of silvicultural treatments on growth of mature mesquite (*Prosopis glandulosa* var. *glandulosa*) nine years after initiation
N.L. Patch and P. Felker (Kingsville, TX, USA) 37
Using vector analysis to assess nitrogen status of ponderosa and Jeffrey pine along deposition gradients in forests of southern California
J.W. Kiefer (Northridge, CA, USA) and M.E. Fenn (Riverside, CA, USA) 47
The use of soil organic matter as a criterion of the relative sustainability of forest management alternatives: a modelling approach using FORECAST
D.M. Morris, J.P. Kimmins and D.R. Duckert (Thunder Bay, Ont., Canada) 61
Composition, structure and management potential of secondary dry tropical vegetation in two abandoned henequen plantations of Yucatan, Mexico
A. Mizrahi Perkulis (Merida, Mexico), J.M. Ramos Prado (Puebla, Mexico) and J.J. Jiménez-Osornio (Merida, Mexico) . 79
Silvicultural models to maintain and restore natural stand structures in Swedish boreal forests
C. Fries (Umeå, Sweden), O. Johansson (Växjö, Sweden), B. Pettersson (Falun, Sweden) and P. Simonsson (Sundsvall, Sweden) 89
Comparison of growth and nutrition of young monocultures and mixed stands of *Eucalyptus globulus* and *Acacia mearnsii*
P.K. Khanna (Canberra, A.C.T., Australia) 105
Population dynamics of five tree species in a monodominant Peltogyne forest and two other forest types on Maracá Island, Roraima, Brazil
M.T. Nascimento and J. Proctor (Stirling, UK) 115
Development and testing of regeneration imputation models for forests in Minnesota
A.R. Ek, A.P. Robinson, P.J. Radtke and D.K. Walters (St. Paul, MN, USA) 129

(Contents continued on p. 252)

Information about *Forest Ecology & Management* is available on the World Wide Web at the following addressess:

http://www.elsevier.nl/locate/foreco
http://www.elsevier.com/locate/foreco

This Home Page gives access to: the journal's Tables of Contents service, Guide for Authors, and ordering information and also enables users to search the WWW catalogue and Tables of Contents service (ESTOC) covering all Elsevier Science journals.

For information about related Elsevier Science publications visit:

http://www.elsevier.nl/locate/agri-alert
http://www.elsevier.com/locate/agri-alert

0378-1127(19970630)94:1-3;1-U

(Contents continued)

The impact of broadcast burning and fire severity on species composition and abundance of surface vegetation in a jack pine (*Pinus banksiana*) clear-cut
C.A. Whittle (Sault Ste. Marie, Ont., Fredericton, N.B., Canada), L.C. Duchesne (Sault Ste. Marie, Ont., Canada) and T. Needham (Fredericton, N.B., Canada) 141
Using plant functional attributes to quantify site productivity and growth patterns in mixed forests
J.K. Vanclay, A.N. Gillison (Jakarta, Indonesia) and R.J. Keenan (Atherton, Qld., Australia) 149
Spectral techniques in spatial analysis
E. Renshaw (Glasgow, UK) 165
Spatial models of competition and gap dynamics in old-growth *Tsuga heterophylla*/*Thuja plicata* forests
M. Moeur (Moscow, ID, USA) 175
Acidification of forest top soils in 60 years to the southwest of Helsinki
H. Ahokas (Helsinki, Finland) 187
More timber from boreal forests under changing climate?
S. Kellomäki, T. Karjalainen and H. Väisänen (Joensuu, Finland) 195
An experimental comparison of different harvesting intensities with reduced-impact and conventional logging in East Kalimantan, Indonesia
J.-G. Bertault and P. Sist (Montpellier, France) 209
Effects of scarification on seedbed coverage and natural regeneration after a group seed-tree cutting in a black spruce (*Picea mariana*) stand
M. Prévost (Sainte-Foy, Que., Canada) 219
Conversion of anthropogenic savanna to production forest through fire-protection of the forest–savanna edge in Gabon, Central Africa
J. King (Durham, NC, USA), J.-B. Moutsinga and G. Doufoulon (Libreville, Gabon) 233

Book reviews
Biodiversity in managed landscapes 249
Forestry, economics and the environment. 250
Pricing the planet 250